

Form Approved
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Comprehensive Assessment Information Rule REPORTING FORM

078 DUNGGA CARARD

When	completed,	send	this	form	to:

Document Processing Center Office of Toxic Substances, TS-790 U.S. Environmental Protection Agency 401 M Street, SW Washington, DC 20460 Attention: CAIR Reporting Office For Agency Use Only:

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EPA Form 7710-52

		SECTION 1 GENERAL MANUFACTURER, IMPORTER, AND PROCESSOR INFORMATION
PART A	. G	ENERAL REPORTING INFORMATION
1.01	Thi	s Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
CBI	com	pleted in response to the <u>Federal Register</u> Notice of $\begin{bmatrix} -1 \\ mo$. $\begin{bmatrix} -1 \\ day \end{bmatrix}$ year
<u></u>	a.	If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
·		Register, list the CAS No
	b.	If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal Register</u> .
		(i) Chemical name as listed in the rule
		(ii) Name of mixture as listed in the rule
		(iii) Trade name as listed in the rule
	c.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule
		CAS No. of chemical substance [_]_]_]_]_]_]_]_]_]-[_]
		Name of chemical substance
1.02	Id	entify your reporting status under CAIR by circling the appropriate response(s).
CBI	Ma	nufacturer 1
[_]	Im	porter 2
-	Pr	ocessor3
	Х/	P manufacturer reporting for customer who is a processor4
	X/	P processor reporting for customer who is a processor

1.03 <u>CBI</u> [_]	Does the substance you are reporting on have an "x/p" designation associated with it in the above-listed Federal Register Notice? Yes			
	do to question i.e.			
1.04 <u>CBI</u> [_]	a. Do you manufacture, import, or process the listed substance and distribute it under a trade name(s) different than that listed in the Federal Register Notice? Circle the appropriate response. Yes			
	b. Check the appropriate box below: [] You have chosen to notify your customers of their reporting obligations Provide the trade name(s)			
	[] You have chosen to report for your customers [] You have submitted the trade name(s) to EPA one day after the effective date of the rule in the Federal Register Notice under which you are reporting.			
1.05 <u>CBI</u> [_]	If you buy a trade name product and are reporting because you were notified of your reporting requirements by your trade name supplier, provide that trade name. Trade name			
	Yes			
1.06 <u>CBI</u>	Certification — The person who is responsible for the completion of this form must sign the certification statement below: "I hereby certify that, to the best of my knowledge and belief, all information entered on this form is complete and accurate." SCOTT A. JACOBS Column G-5-89 NAME SIGNATURE DATE SIGNED			
[_]	ark (X) this box if you attach a continuation sheet.			

1.07 <u>CBI</u> []	Exemptions From Reporting If you have provided EPA or another Federal agency with the required information on a CAIR Reporting Form for the listed substance within the past 3 years, and this information is current, accurate, and complete for the time period specified in the rule, then sign the certification below. You are required to complete section 1 of this CAIR form and provide any information now required but not previously submitted. Provide a copy of any previous submissions along with your Section 1 submission.			
	information which I have not inc	pest of my knowledge and belief, al cluded in this CAIR Reporting Form and is current, accurate, and compl	has been submitted	
	NAME	SIGNATURE	DATE SIGNED	
	TITLE	()	DATE OF PREVIOUS SUBMISSION	
1.08 <u>CBI</u> [_]	certify that the following state those confidentiality claims whi "My company has taken measures tand it will continue to take the been, reasonably ascertainable busing legitimate means (other tha judicial or quasi-judicial proinformation is not publicly available."	e asserted any CBI claims in this rements truthfully and accurately apach you have asserted. To protect the confidentiality of these measures; the information is not by other persons (other than govern an discovery based on a showing of ecceding) without my company's consulable elsewhere; and disclosure of my company's competitive position.	he information, t, and has not ment bodies) by special need in ent; the the information	
	NAME TITLE	SIGNATURE () TELEPHONE NO.	DATE SIGNED	
	Mark (X) this box if you attach a			

PART	B CORPORATE DATA
1.09	Facility Identification
CBI	Name [FIAITIRIPIRIEINIEI] INDIVISITIRITIAILI IPIRIODI.
[_]	Address [8]5] MITILILI IPILIAI INI IRIOIAIDI IIII IIII
	[FIAI]IRIFI]EILIDI_I_I_I_I_I_I_I_I_I_I_I_I_I_I_I
	[C]T] [O]6]4]3]0][O]O]0]0] State Zip
	Dun & Bradstreet Number[_]_]-[_]_]-[_]]_]-[_]]]
	EPA ID Number
	Employer ID Number
	Primary Standard Industrial Classification (SIC) Code
	Other SIC Code
	Other SIC Code
1.10	Company Headquarters Identification (SAME AS ABOVE)
CBI	Name []]]]]]]]]]]]]]]]]]
[_]	Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]]]][_]]]]]] State
	Dun & Bradstreet Number
	Employer ID Number
 ,	Mark (V) this has if you attach a continuation short
ı—۱	Mark (X) this box if you attach a continuation sheet.

1.11	Parent Company Identification
<u>CBI</u>	Name [THE]
	(NO)RITIHI_ CIHIAIR LIE S TIO N _ _ _ _ _ _ _ _ _
	[<u>5]</u> <u>こ</u>] [<u>2</u>] <u>9</u>] <u>4</u>] <u>0</u>] <u>6</u>][<u>0</u> 0 <u>0</u>] <u>0</u>]
	Dun & Bradstreet Number
1.12	Technical Contact
<u>CBI</u>	Name [S]C]O T]T] A] JA]C O B S - - - - - - - - - - - - - - - - - -
	(PAIIRFILELDI IIII III III III III III III III III
	[<u>C]T]</u> [<u>O]O]5]3]<u>O</u>][<u>O]O]O</u>]<u>O</u> State</u>
	Telephone Number
1.13	This reporting year is from $[\overline{O}]\overline{I}$ $[\overline{R}]\overline{R}$ to $[\overline{I}]\overline{Z}$ $[\overline{S}]\overline{R}$ Mo. Year
	$m{\cdot}$
[-]	Mark (X) this box if you attach a continuation sheet.

1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller: $N.A.$
<u>CBI</u>	Name of Seller [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]_]_]_]_][_]_]_]_] State
	Employer ID Number
	Date of Sale
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
1.15	Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer:
CBI	Name of Buyer [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]]]][_]]]]]]]]]]]]]]
	Employer ID Number[_]_]_]_]_]_]_]_]
	Date of Purchase
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
[_]	Mark (X) this box if you attach a continuation sheet.

<u>CBI</u>	was manufactured, imported, or processed at your facility during the r Classification	uantity (kg/yr)	
	Manufactured	0	
	Imported	_	
	Processed (include quantity repackaged)	1.0	
	Of that quantity manufactured or imported, report that quantity:		
		. Q	
	In storage at the beginning of the reporting year	^	
	For on-site use or processing		
	For direct commercial distribution (including export)		
	In storage at the end of the reporting year		
	Of that quantity processed, report that quantity:	. .	
	In storage at the beginning of the reporting year	0.2	
	Processed as a reactant (chemical producer)	0	
	Processed as a formulation component (mixture producer)	Q	
	Processed as an article component (article producer)	. 1.2	
	Repackaged (including export)	Q	
	In storage at the end of the reporting year	0.3	

 $[\ \ \]$ Mark (X) this box if you attach a continuation sheet.

1.17 <u>CBI</u>	Mixture If the listed substance on which you are required to report is a mixture or a component of a mixture, provide the following information for each component chemical. (If the mixture composition is variable, report an average percentage of each component chemical for all formulations.)			
[_]	Component Name	Supplier Name	Average % Composition by Weight (specify precision, e.g., $45\% \pm 0.5\%$)	
	1,3-DI ISORYANATO-METHYL BENZENE	UNIROYAL	0	. 2% ± 0.05
	POLY URETHANE	UNIRDYAL	90	1.8 ± 0.05
			Total	100%
				2000

[_] Mark (X) this box if you attach a continuation sheet.

2.04	State the quantity of the listed substance that your facility manufactured, imported or processed during the 3 corporate fiscal years preceding the reporting year in descending order.
CBI	
[_]	Year ending
	Quantity manufactured kg
	Quantity imported k
	Quantity processed k
	Year ending [_]_] [_]_ Mo. Year
	Quantity manufactured kg
	Quantity imported kg
	Quantity processedkg
	Year ending
	Quantity manufactured kg
	Quantity imported kg
	Quantity processed kg
2.05 CBI	Specify the manner in which you manufactured the listed substance. Circle all appropriate process types.
[_]	Continuous process
	Semicontinuous process
	Batch process 3
[_]	Mark (X) this box if you attach a continuation sheet.

2.06 CBI	Specify the manner in appropriate process ty	which you processed t pes.	he listed substance.	Circle all
[_]	Continuous process	• • • • • • • • • • • • • • • • • • • •	•••••	
	Semicontinuous process	• • • • • • • • • • • • • • • • • • • •	••••••	•••••
	Batch process	• • • • • • • • • • • • • • • • • • • •	••••••••••	•••••
2.07 <u>CBI</u>	State your facility's substance. (If you are question.)	name-plate capacity f e a batch manufacture	or manufacturing or p r or batch processor,	processing the listed do not answer this
[_]	Manufacturing capacity	••••••	•••••	NA kg/y:
	Processing capacity			730 kg/yi
2.08 CBI	If you intend to increamanufactured, imported, year, estimate the increase volume.	or processed at any	time after your curr	ent corporate fiscal
[_]	N.A.	Manufacturing Quantity (kg)	Importing Quantity (kg)	Processing Quantity (kg)
	Amount of increase			
	Amount of decrease			
[_]	Mark (X) this box if you	ı attach a continuati	on sheet.	

2.09	listed substance substance durin	argest volume manufacturing or processing procese, specify the number of days you manufactured of the reporting year. Also specify the average s type was operated. (If only one or two operates)	or processed number of h	the listed ours per
CBI			Days/Year	Average Hours/Day
	Process Type #1	(The process type involving the largest quantity of the listed substance.)		
		Manufactured		
		Processed	5	8
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)		
		Manufactured	NA_	
		Processed	NA	
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)		
		Manufactured	NA_	
		Processed	_NA_	
2.10 <u>CBI</u> [_]	substance that chemical.	um daily inventory and average monthly inventory was stored on-site during the reporting year in	the form of	a bulk
	Maximum daily in	nventory		
	Average monthly	inventory	0.3	. kg
[_]	Mark (X) this be	ox if you attach a continuation sheet.		

<u>BI</u>	introduced in etc.).	rce from which the byp to the product (e.g.,	roducts, coproducts carryover from raw	material, reaction	on product, Source of By-
	CAS No.	Chemical Name	Byproduct, Coproduct or Impurity ¹	Concentration (%) (specify ± % precision)	products, Co- products, or Impurities

[_] Mark (X) this box if you attach a continuation sheet.

2.12 <u>CBI</u> [_]	Existing Product Types imported, or processed the quantity of listed total volume of listed quantity of listed sub listed under column b. the instructions for f	using the listed su substance you use f substance used duri stance used captivel , and the types of e	ostance or each ng the y on-si nd-use	e during the re n product type reporting year ite as a percen rs for each pro	porting year. List as a percentage of the Also list the tage of the value
	a.	b.		c.	d,
		% of Quantity Manufactured,	%	of Quantity	
	•	Imported, or		sed Captively	, , ,
	Product Types ¹	Processed		On-Site	Type of End-Users ²
	K	100	_	100	I
	B = Synthetic reactant M = Plasticizer C = Catalyst/Initiator/Accelerator/ N = Dye/Pigment/Col Sensitizer 0 = Photographic/Re D = Inhibitor/Stabilizer/Scavenger/ and additives				on/Plating chemicals dditives cals and additives chemicals ol chemicals and additives additives
	² Use the following cod	es to designate the	type o	f end-users:	
	<pre>I = Industrial CM = Commercial</pre>	CS = Cons H = Othe		cify)	
[_]	Mark (X) this box if y	ou attach a continua	tion s	heet.	

2.13 <u>CBI</u> [_]	Expected Product Types import, or process usin corporate fiscal year. import, or process for substance used during tused captively on-site types of end-users for explanation and an exam	g the listed substa For each use, spec each use as a perce he reporting year. as a percentage of each product type.	nce at any time after ify the quantity you ntage of the total vo Also list the quanti the value listed unde	your current expect to manufacture, lume of listed ty of listed substance er column b., and the		
	a.	b.	с.	d.		
	Product Types ¹	% of Quantity Manufactured, Imported, or Processed	% of Quantity Used Captively On-Site	Type of End-Users ²		
	K	100	100			
	¹Use the following code	a to docionate prod				
	A = Solvent	s to designate prod		e/Rubber and additives		
	B = Synthetic reactant		<pre>L = Moldable/Castable/Rubber and additives M = Plasticizer</pre>			
	C = Catalyst/Initiator			rant/Ink and additives		
	Sensitizer	or/Converger/	<pre>0 = Photographic/Rep and additives</pre>	rographic chemical		
	D = Inhibitor/Stabiliz Antioxidant	er/scavenger/	P = Electrodepositio	n/Plating chemicals		
	E = Analytical reagent		<pre>Q = Fuel and fuel additives R = Explosive chemicals and additives</pre>			
	F = Chelator/Coagulant					
	G = Cleanser/Detergent		S = Fragrance/Flavor			
	H = Lubricant/Friction	modifier/Antiwear	<pre>T = Pollution control chemicals U = Functional fluids and additives</pre>			
	agent I = Surfactant/Emulsif	ier	V = Metal alloy and			
	J = Flame retardant		W = Rheological modi			
	<pre>K = Coating/Binder/Adh</pre>	esive and additives				
	² Use the following code	s to designate the	type of end-users:			
	I = Industrial	CS = Cons				
	CM = Commercial	H = Othe	r (specify)			
<u></u>	Mark (X) this box if yo	u attach a continua	tion sheet.			

-'	a.	b.	с.	d.			
			Average %				
		Dinal Duadwatta	Composition of Listed Substance	Tuno of			
	Product Type ¹	Final Product's Physical Form ²	in Final Product	Type of End-Users ³			
	K	H		Į			
	¹ Use the following co	des to designate pro					
	A = Solvent		L = Moldable/Castabl	e/Rubber and addit:			
	B = Synthetic reacta		M = Plasticizer				
	C = Catalyst/Initiat	or/Accelerator/	N = Dye/Pigment/Colo				
	Sensitizer		0 = Photographic/Rep	rographic chemical			
	D = Inhibitor/Stabil	izer/Scavenger/	and additives	(m) . () . 1 . 1			
	Antioxidant						
	E = Analytical reage						
	F = Chelator/Coagula						
	G = Cleanser/Deterge		S = Fragrance/Flavor				
	H = Lubricant/Fricti	on modifier/Antiwear					
	agent	: 6:	U = Functional fluid				
	I = Surfactant/Emuls	ifier	V = Metal alloy and				
	J = Flame retardant K = Coating/Binder/A	dhesive and additive	<pre>W = Rheological modi es X = Other (specify)</pre>	Iler			
	<pre>K = Coating/Binder/Adhesive and additives X = Other (specify)</pre>						
	A = Gas		stalline solid				
	B = Liquid	F3 = Grain					
	C = Aqueous solution						
	D = Paste	G = Gel					
	E = Slurry		er (specify)				
	F1 = Powder						
	³ Use the following co	des to designate the	type of end-users:				
	I = Industrial	CS = Con					
	CM = Commercial	H = Oth	er (specify)	 			

2.15 Circle all applicable modes of transportation used to deliver bulk shipments $\underline{\text{CBI}}$ listed substance to off-site customers. \bigwedge , \bigwedge ,										
[_]		k	1							
	Rail	ailcar 2								
	Barg	Barge, Vessel 3								
	Pipe	line	4							
	Plan	e	5							
	0the	r (specify)	6							
2.16 <u>CBI</u> [_]	or profer	omer Use Estimate the quantity of the listed substance used by your customer repared by your customers during the reporting year for use under each category nd use listed (i-iv). N.A.	s							
		gory of End Use								
	i.	Industrial Products								
		Chemical or mixture kg/								
		Article kg/	уr							
	ii.	Commercial Products								
		Chemical or mixture kg/	уr							
		Article kg/	yr							
	iii.	Consumer Products								
		Chemical or mixture kg/	yr							
		Article kg/	yr							
	iv.	<u>Other</u>								
		Distribution (excluding export) kg/y	yr							
		Export kg/y	/r							
		Quantity of substance consumed as reactant kg/y	/r							
		Unknown customer uses kg/y								
			-							
[_]	Mark	(X) this box if you attach a continuation sheet.								

CECTION	3	DDUCESSUD	DAU	MATERIAL	TDENTIFICATION
OLULI LUIV		PRUCESSUR	KAW	MAIRKIAL	I DENI FELLATION

PART	A GENERAL DATA							
3.01 <u>CBI</u>	Specify the quantity purchased and the average price for each major source of supply listed. Product trad The average price is the market value of the product substance.	es are treated a	s purchases.					
L	Source of Supply	Quantity (kg)	Average Price (\$/kg)					
	The listed substance was manufactured on-site.	NA						
	The listed substance was transferred from a different company site.	NA						
	The listed substance was purchased directly from a manufacturer or importer.	NA						
	The listed substance was purchased from a distributor or repackager.	NA						
	The listed substance was purchased from a mixture producer.	612	1.42					
3.02 CBI	Circle all applicable modes of transportation used to deliver the listed substance to your facility.							
[_]	Truck	• • • • • • • • • • • • • • • • • • • •	1					
	Railcar	• • • • • • • • • • • • • • • • • • • •	2					
	Barge, Vessel	• • • • • • • • • • • • • • • • • • • •						
	Pipeline	• • • • • • • • • • • • • • • • • • • •	4					
	Plane	• • • • • • • • • • • • • • • • • • • •	5					
	Other (specify)	• • • • • • • • • • • • • • • • • • • •	6					
[_]	Mark (X) this box if you attach a continuation sheet.							

3.03 CBI	a.	Circle all applicable containers used to transport the listed substance to yo facility.	ur
[_]		Bags	1
		Boxes	2
		Free standing tank cylinders	3
		Tank rail cars	4
		Hopper cars	5
		Tank trucks	6
		Hopper trucks	7
		Drums	(8
		Pipeline	9
		Other (specify)	10
	b.	If the listed substance is transported in pressurized tank cylinders, tank racars, or tank trucks, state the pressure of the tanks. N.A.	il
		•	mmHg
		Tank rail cars	mmHg
		Tank trucks	mmHg

3.04 BI -	of the mixture, the name	e of its supplier(s) ion by weight of th	form of a mixture, list the or manufacturer(s), an est ne listed substance in the morting year.	imate of the
*	Trade Name	Supplier or Manufacturer	Average % Composition by Weight (specify ± % precision)	Amount Processed (kg/yr)
	ADIPRENE® BL-16	UNIROYAL	0.2	595.5

3.05 CBI [_]	reporting year in the form of a class I chemical, class II chemical, or the percent composition, by weight, of the listed substance.					
[]	N.A.	Quantity Used (kg/yr)	% Composition by Weight of Listed Sub- stance in Raw Material (specify ± % precision)			
	Class I chemical					
	Class II chemical					
	Polymer					

SECTION	٨.	DUVCTCAL	/CHEMICAL	PROPERTIES
SELTION	4	PHINICAL	/ Unbill CAL	LUGLEVITES

Gene	ral	Inc	tru	cti	ons	•
uene	Lal	1113	LLU		OHS	

If you are reporting on a mixture as defined in the glossary, reply to questions in Section 4 that are inappropriate to mixtures by stating "NA -- mixture."

For questions 4.06-4.15, if you possess any hazard warning statement, label, MSDS, or other notice that addresses the information requested, you may submit a copy or reasonable facsimile in lieu of answering those questions which it addresses.

FAKI .	A PHYSICAL/CHEMICAL DA	ra summary								
4.01 <u>CBI</u>	Specify the percent purity for the three major 1 technical grade(s) of the listed substance as it is manufactured, imported, or processed. Measure the purity of the substance in the final product form for manufacturing activities, at the time you import the substance, or at the point you begin to process the substance.									
[_]		Manufacture	Import	Process						
	Technical grade #1	NA % purity	NA % purity	<u>0.2</u> % purity						
	Technical grade #2	% purity	% purity	% purity						
	Technical grade #3	% purity	% purity	% purity						
4.02	Submit your most recen	tly updated Material S	atety Data Sheet (MSDS) for the listed						
4.02	substance, and for eve an MSDS that you devel version. Indicate whe	ry formulation contain oped and an MSDS devel	ing the listed substan oped by a different so	ce. If you possess urce, submit your						
4.02	substance, and for eve an MSDS that you devel	ry formulation contain oped and an MSDS devel ther at least one MSDS	ing the listed substan oped by a different so has been submitted by	ce. If you possess urce, submit your circling the						
4.02	substance, and for eve an MSDS that you devel version. Indicate whe appropriate response.	ry formulation contain oped and an MSDS devel ther at least one MSDS	ing the listed substan oped by a different so has been submitted by	ce. If you possess urce, submit your circling the						
4.02	substance, and for eve an MSDS that you devel version. Indicate whe appropriate response. Yes	ry formulation contain oped and an MSDS devel ther at least one MSDS	ing the listed substan oped by a different so has been submitted by	ce. If you possess urce, submit your circling the						
4.02	substance, and for eve an MSDS that you devel version. Indicate whe appropriate response. Yes	ry formulation contain oped and an MSDS devel ther at least one MSDS	ing the listed substan oped by a different so has been submitted by	ce. If you possess urce, submit your circling the						
4.02	substance, and for eve an MSDS that you devel version. Indicate whe appropriate response. Yes	ry formulation contain oped and an MSDS devel ther at least one MSDS	ing the listed substan oped by a different so has been submitted by	ce. If you posses urce, submit your circling the						



BEST COPY AVAILABLE **Material Safety Data Sheet**

Uniroyal Chemical Company, Inc. UNIROYAL Emergency Phone: (203) 723-3670 World Headquarters Middlebury, CT 06749

CHEMTREC Transportation Emergency Phone: 1-800-424-9300

SAFETY DATA Information (203) 573-3303

V752001 MSDS No.-

Date Issued: .

IDENTIFICATION

Trade Name: ADIPRENE® BL-16

CAS Number: Mixture

Chemical Name: Blocked reaction product of a

Chemical Family: Polyurethane

polyether with toluene diisocyanate (TDI)

SPECIAL REGULATORY HAZARDS

Ingredient

CAS No.

Exposure Limit

OSHA (1910.1200)

EEC*

0.2 TDI

584-84-9

.005 ppm TLV (ACGIH) (OSHA) ,02 ppm STEL

Irritant Sensitizer

Irritant Sensitizer

1.3-DIISOCYANATO - I-METHYL BENZENE

Hazard assessment based on available data.

Transportation: NA

PHYSICAL DATA

Appearance and Odor: Amber-colored, thick liquid; characteristic odor

Solubility: Insoluble in water (may react)

Specific Gravity (H₂O = 1): 1.06

Melting Point: ND

Vapor Pressure @ 20°C. ND

Boiling Point: ND

Vapor Density (Air = 1): ND

Volatility @ 70°F: Low

Other Data: Freezing Point: 65°F (18°C)

FIRE AND EXPLOSION HAZARD DATA

Flash Point: 255°F (124°C) CC

Autoignition Temp: ND

Extinquishing Media: Water spray, dry chemical

Flammable Limits: ND

Special Fire Fighting Procedures: Protect against inhalation combustion products.

Unusual Hazards: Flammable vapors (methyl ethyl ketoxime) liberated above 200°F. Cyanates under burning

conditions.

REACTIVITY DATA

Stability: Stable at ambient temperatures and pressures.

Incompatibility: Avoid moisture, strong oxidizers, alcohol and amines.

Decomposition Products: Methyl ethyl ketoxime on heating. Under extreme temperatures, e.g., puriting cyanates, hydrocarbons, oxides of carbon and nitrogen, some HCN.

NA = Not Applicable

ND = Not Determined

*European Economic Community

Uniroyal makes no representation or warranty with respect to the information in this Material Safety Data Sheet. The information is however, as of this date provided, true and accurate to the best of Uniroyal's knowledge. This list of information is not intended to be all inclusive. Actual conditions of use and handling may require considerations of information other than, or in addition to, that which is provided herein.

SPECIAL PROTECTION INFORMATION

Engineering Controls: Local exhaust ventilation strongly recommended.

Personal Protection Equipment: Impervious gloves and goggles should be worn. Avoid breathing vapors. In the absence of good ventilation, under emergency situations or for high concentrations, self-contained or air-supplied respiratory protection is recommended.

STORAGE, SPILLS AND DISPOSAL INFORMATION

Storage: Store away from sources of direct heat and moisture. Seal containers with a dry nitrogen blanket and keep closed when not in use. Moisture contamination will evolve CO2 and create pressure in closed systems.

Spills: Absorb on inert carrier. Transfer to open containers outside or in well-ventilated area. Soak with dilute ammonia hydroxide or water alcohol mixture. Allow time for reaction to be complete before disposal. Reportable Quantity - 100 lbs. (TDI)

Disposal: In accordance with any applicable local, state, or federal regulation regarding polymeric waste.

Environmental Information: Environmental effects have not been determined.

HEALTH RELATED DATA

Specific Hazard(s): Contact with eyes and skin may cause irritation. Repeated, minimal contact with skin may cause sensitization. Exposure to vapor can cause irritation to eyes, lungs and mucous membranes. Repeated inhalation of minimal amounts of vapor can cause respiratory sensitization and asthma.

Primary Route(s) of Entry: Inhalation, skin absorption.

First Aid Procedures: Eye contact: Flush with water for 15 minutes. Get medical attention.

Skin contact: Wipe excess. Wash with rubbing alcohol, if available, followed by soap and

water. Discard shoes if contaminated.

Inhalation: Remove to fresh air. Physician - treat for potential respiratory irritation.

Toxicology Information:

There is no acute toxicology data on this material, however, residual TDI (0.2%) does possess irritancy and sensitization potential.

The following chronic toxicology information is for TDI:

TDI was found to be carcinogenic in mice and rats by gavage in corn oil in a recently published NCI bioassay. 6-hr. daily inhalation exposures to rats and mice of 0.05 and 0.15 ppm TDI for 2 years did not produce an increased tumor incidence.

Based upon the usual route of human TDI exposure, i.e., inhalation, the carcinogenic potential of TDI to humans has not been determined.

4.03	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.	
	Yes	1
	No	2

4.04 For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at the time you import or begin to process the listed substance. Physical states for manufacturing, storage, disposal and transport activities are determined using the final state of the product.

		Phy	sical State		
Activity	Solid	Slurry	Liquid	Liquified Gas	Gas
Manufacture	1	2	3	4	5
Import	1	2	3	4	5
Process	1	2	3	4	5
Store	1	2	3	4	5
Dispose	1	2	3	4	5
Transport	1	2	3	4	5

[] Mark (X) this box if you attach a continuation sheet.

4.05 <u>CBI</u>	Particle Size If the listed substance exists in particulate form during any of the following activities, indicate for each applicable physical state the size and the percentage distribution of the listed substance by activity. Do not include particles ≥10 microns in diameter. Measure the physical state and particle sizes for importing and processing activities at the time you import or begin to process the listed substance. Measure the physical state and particle sizes for manufacturing storage, disposal and transport activities using the final state of the product.								
[_]	Physical	N. A.							
	State		Manufacture	<u>Import</u>	Process	Store	Dispose	Transport	
	Dust	<1 micron							
		1 to <5 microns							
		5 to <10 microns							
	Powder	<1 micron							
		1 to <5 microns						<u> </u>	
		5 to <10 microns							
	Fiber	<1 micron							
		1 to <5 microns							
		5 to <10 microns							
	Aerosol	<1 micron							
		1 to <5 microns							
		5 to <10 microns							

SECTION 5 ENVIRONMEN	TAI.	FATE
----------------------	------	------

5.01	Ind	licate the rate constants for the following tra	ansformation proce	sses.	N.A.
	a.	Photolysis:			
		Absorption spectrum coefficient (peak)	(1/M cm)	at _	nm
		Reaction quantum yield, 6		at _	nm
		Direct photolysis rate constant, k_p , at	1/hr		latitude
	b.	Oxidation constants at 25°C:			
		For ¹ 0 ₂ (singlet oxygen), k _{ox}			1/M h
		For RO ₂ (peroxy radical), k _{ox}			1/M h
	c.	Five-day biochemical oxygen demand, BOD ₅			
	d.	Biotransformation rate constant:			
		For bacterial transformation in water, $k_b \dots$			1/hr
		Specify culture	Market and the second s		
	e.	Hydrolysis rate constants:			
		For base-promoted process, k _B			1/M h
		For acid-promoted process, k,			1/M h
		For neutral process, k _N			1/hr
	f.	Chemical reduction rate (specify conditions)_			
	g.	Other (such as spontaneous degradation)			

₋	l Mark	/V\	thic	how	; F	***	a + + a a b	_	continuation	aboot
	mark	(X)	tnis	DOX	11	you	attach	а	continuation	sneet.

PART		PARTITION COEFFICIEN		linead auh	atance in the following	a modia
5.02	а.	Media	N. A.	listed sub	stance in the followir Half-life (specif	
		Groundwater				
		Atmosphere				
		Surface water				
		Soil				
	b.	Identify the lister		e's known t	ransformation products	that have a half-
		CAS No.		Name	Half-life (specify units)	Media
		<u> </u>		<u>::::::::</u>	(operat) and to	in
						in
						in
			<u></u>			in
5.03					ient, K _{ow}	
5.04		cify the soil-water			t, K _d	at 25°
5.05		cify the organic can				at 25°0
5.06	Spe	cify the Henry's Lav	v Constant,	Н		atm-m³/mole
	Mar	k (X) this box if yo	ou attach a	continuati	ion sheet.	

.07	it was determined, and the ty	tor (BCF) of the listed substance upe of test used in deriving the B	CF.	N.A.
	Bioconcentration Factor	Species	<u>Test</u> ¹	
	¹ Use the following codes to d	lesignate the type of test:		
	F = Flowthrough S = Static			
	S = Static			

<u></u>]	N.A.	Quantity Sold or	Total Sales
	Market	Transferred (kg/yr)	Value (\$/yr)
	Retail sales		
	Distribution Wholesalers		
	Distribution Retailers		
	Intra-company transfer		
	Repackagers		
	Mixture producers	-	
	Article producers	44	
	Other chemical manufacturers or processors		
	Exporters	*	
	Other (specify)		
6.05 CBI	Substitutes List all known comme for the listed substance and state feasible substitute is one which is in your current operation, and which	the cost of each substitut s economically and technolo	e. A commercially ogically feasible to us
	for the listed substance and state feasible substitute is one which is	the cost of each substitut s economically and technolo	e. A commercially ogically feasible to us
CBI	for the listed substance and state feasible substitute is one which is in your current operation, and which performance in its end uses.	the cost of each substitut s economically and technolo	e. A commercially ogically feasible to us not with comparable
CBI	for the listed substance and state feasible substitute is one which is in your current operation, and which performance in its end uses.	the cost of each substitut s economically and technolo	e. A commercially ogically feasible to us not with comparable
CBI	for the listed substance and state feasible substitute is one which is in your current operation, and which performance in its end uses.	the cost of each substitut s economically and technolo	e. A commercially ogically feasible to us not with comparable
CBI	for the listed substance and state feasible substitute is one which is in your current operation, and which performance in its end uses.	the cost of each substitut s economically and technolo	e. A commercially ogically feasible to us not with comparable

SECTION 7 MANUFACTURING AND PROCESSING INFORMATION

General Instructions:

For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the information is extracted.

PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

CBI

[] Process type POLYURETHANE SOLUTION COATING (I)

7.A METHY ETHYL KETOME 7.D CHURN 7.E COATING 7.H FULLY CURED COATED TANK 7.1 TOWER COATED FABRIC 7.1 FULLY FABRIC FABRIC FABRIC INCINERATOR

RESTOUAL PRODUCT

[__] Mark (X) this box if you attach a continuation sheet.

7.03 In accordance with the instructions, provide a process block flow diagram showing all process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if not treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions for question 7.01. If all such emissions are released from more than one process type, provide a process block flow diagram showing each process type as a separate block.

RAW
MATERIALD

RAW
MA

[] Mark (X) this box if you attach a continuation sheet.

process type.				ly for each
	4.7			
Process type	····· <u>(I)</u>			
Unit Operation ID Number	Typical Equipment Type	Operating Temperature Range (°C)	Operating Pressure Range (mm Hg)	Vessel Composition
7.1	100 GAL CHURN TANK	AMBIENT	AMBIENT	STEL
7,2	COATING TOWER	124		
7.3	CATALYTIC INCINERATOR	<u> 255</u>		
	-			
	Operation ID Number 7.1 7.2 7.3	Operation ID Equipment Type 7.1	Operation Typical Operating ID Equipment Temperature Number Type Range (°C) 7.1 100 GAL CHURN TANK AMBIENT 7.2 COATING TOWER 124	Operation Typical Operating Pressure Range (*C) Number Type Range (*C) (mm Hg) 7. 1

7.05	process block	process stream identified in your pr flow diagram is provided for more th omplete it separately for each proce	nan one process type	
[_]	Process type .	<u>(r)</u>		
	Process Stream ID Code	Process Stream Description	Physical State ¹	Stream Flow (kg/yr)
	<u>7.E</u>	COATING SOLUTION	<u> </u>	<u>595</u>
	7.F	FABRIC	50	1500
	<u>7.G</u>	WASTE COATING SOLUTION	OL	315
	<u> 7.H</u>	FULLY CURED PRODUCT	<u> 50</u>	1625
	<u>7.I</u>	PROCESS FUMES	<u> </u>	154
				- Area -
	GC = Gas (cone GU = Gas (unco SO = Solid SY = Sludge of AL = Aqueous OL = Organic	liquid	pressure) nd pressure)	
[_]	Mark (X) this l	box if you attach a continuation she	et.	, p. 7. (1. (1. (1. (1. (1. (1. (1. (1. (1. (1

7.06 <u>CBI</u>	If a proces	se each process stream identifies block flow diagram is placed and complete it separates for further explanation	orovided for mon stely for each p	re than one proc process type.	cess type, photocopy
[_]	Process typ	oe <u>(I)</u>			
	a.	b.	с.	d.	е.
	Process Stream ID Code	Known Compounds ¹	Concen- trations ^{2,3} (%	Other Expected Compounds	Estimated Concentrations (% or ppm)
	7.E	METHYL ETHYL KETONE	51	NA	NA
		ADIPRENE® BL-16	39		
		ELASTOMER	10		
	7.6	METHYL ETHYL KETONE	51	NA	NA
		ADIPRENE® BL-16	39		
		ELASTONER			
	7,4	FABRIC	80	NA	NA
		ELASTOMER	10		
		POLYURETHANE	10		
7.06	continued l	pelow			

7.06	(continued)	N	A
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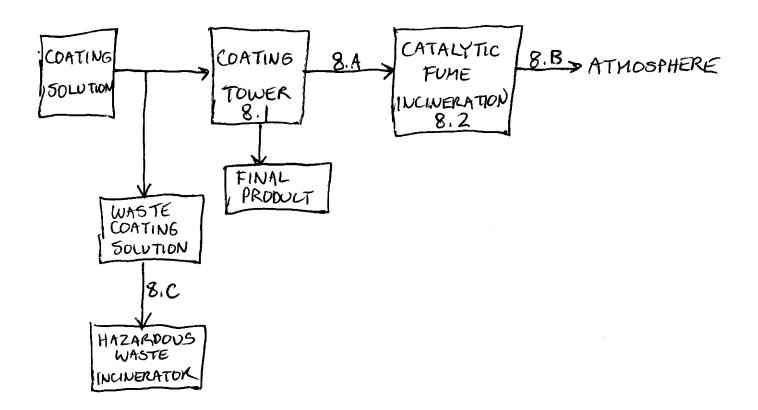
¹For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

	Additive	Package	(% or ppm)
1			
		···	***************************************
2			
3			
4			
			
F			
5			
² Use the following	codes to designate how	the concentration	was determined:
A = Analytical re E = Engineering j	esult udgement/calculation		
³ Use the following	codes to designate how	the concentration	was measured:
V = Volume W = Weight			

8.01 In accordance with the instructions, provide a residual treatment block flow diagram which describes the treatment process used for residuals identified in question 7.01.

CBI

[] Process type FUME INCINERATION



8.05 <u>CBI</u>	diagram process	(s). If a integration type, photo	cesidual trea	am identified in atment block flouestion and comp ons for further	ow diagram is plete it sepa	provided for rately for ea	more than one ch process
[_]	Process	type					
	a.	b .	c.	d.	e.	· f.	g.
	Stream ID Code	Type of Hazardous Waste	Physical State of Residual ²	Known Compounds ³	Concentra- tions (% or ppm) ⁴ , ⁵ ,6	Other Expected Compounds	Estimated Concen- trations (% or ppm)
	8. A.B	I	GA5	MEK	>99	NA	NA
	V			ADIPREVE BLIL	<1		
				ELASTOMER	_ <		
	8.C	I	LIQUID	MEK	51	NA	NA
		-	PH.~7	ADI PRENE®BLIE	, 39		
			F.P < 100F	ELASTONER	_10		
				Walter Company of the			
							
				· · · · · · · · · · · · · · · · · · ·			
8.05	continue	ed below					

8.05 (continued)

1 Use the following codes to designate the type of hazardous waste:

I = Ignitable

C = Corrosive

R = Reactive

E = EP toxic

T = Toxic

H = Acutely hazardous

²Use the following codes to designate the physical state of the residual:

GC = Gas (condensible at ambient temperature and pressure)

GU = Gas (uncondensible at ambient temperature and pressure)

SO = Solid

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

8.05 continued below

Ω.	.05	(continue	d١
ο.		(CONCINCE	u,

³For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

	Additive Package Number	Additive Package	(% or ppm)
	1	<u>NA</u>	
	0		
	2		
	3		
	4		
	E		
	5	· · · · · · · · · · · · · · · · · · ·	
		<u> </u>	
	⁴ Has the following codes	to designate how the concentratio	n was determined:
		to designate now the concentration	ii was determined.
	A = Analytical result E = Engineering judgemen	t/calculation	
 8.05	continued below		
[_]	Mark (X) this box if you	attach a continuation sheet.	
		5.6	

Q	<u> </u>	(continued)
8.0	י כט	continued

⁵Use the following codes to designate how the concentration was measured:

V = Volume

W = Weight

⁶Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

<u>Code</u>	Method	Detection Limit
1	FLASHPOINT -CLOSED CUP	-9°C
2		
3		
4		
5		
6		

8.06	diagram	n(s). I: s type. :	f a residu photocopy	al treathis of	atmer uesti	nt blo ion ar	ock :	flow diag omplete i	gram i it sep	s pro arate	reatment blo vided for mo ly for each an example.)	re than one process
<u>CBI</u>				-11-								
[_]	Process	s type .	• • • • • • • • •		<u> </u>					_		
	a.	Ъ	•	c.		d.		•	e.		f. Costs for	g.
	Stream ID Code	Was Descri Code	ption Me	agement ethod Code ²	Qua	esidua antit: kg/yr	ies	Mana of Resi On-Site			Off-Site Management (per kg)	Changes in Management Methods
	8. 8	- Ac	»ı <u>t</u>	FB		280	· 		_ 10	<u> </u>	\$0.50	_NA_
												
										.,,		
				-,								
				······································								
						·····				· · · · · · · · · · · · · · · · · · ·		

				······································								
											-	
												
	¹Use ti	he codes	provided	in Exh	ibit	8-1	 to d	esignate	the v	aste	descriptions	
	•		•					=			ement methods	
								-				
[_]	Mark (X) this	box if yo	u attac	h a	conti	nuat	ion shee	t.			

8.22 CBI	Describe the compaction (by capacity) your process by	incinerator	s that are us	sed on-site	to burn the r	esiduals id		
[_]	NA	Comb Ch	Combustion Chamber Temperature (°C)		ition of perature pnitor	Residence Time In Combustion Chamber (seconds)		
	Incinerator	Primary	Secondary	Primary	Secondary	Primary	Secondary	
	1							
	2							
	3		****					
			of Solid Wast propriate resp		ıs been submit	ted in lieu	of response	
	Yes	• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••	1	
	No	• • • • • • • • • •	•••••	• • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	2	
<u>CBI</u>	are used on-sitreatment block NA Incinerator		ram(s). Air Po	s identified ollution Device	in your proc	Type: Emission	s of	
	2							
	3		and the second s		************			
	Indicate	if Office ing the app	of Solid Wast ropriate resp	e survey ha	s been submit	ted in lieu	of response	
	Yes		••••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • •	1	
					• • • • • • • • • • • • • • • • • • • •			
	¹ Use the follow				lution contro			
	S = Scrubber (E = Electrosta O = Other (spe	atic precip	itator		hesis)			
[_]	Mark (X) this b	оох if you	attach a cont	inuation sh	eet.			

PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

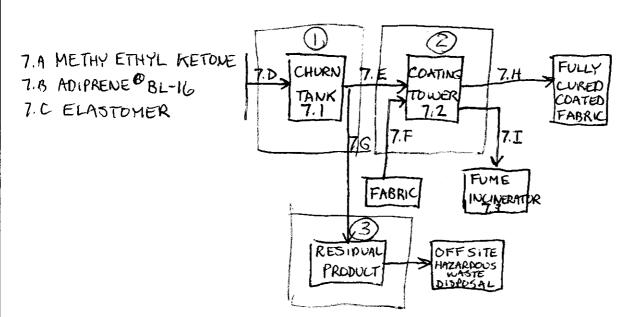
·	Hourly	intained for: Salaried	Data Collection	Number Years Rec
Data Element	Workers	Workers	Began	Are Maint
Date of hire	_X_	X	1984	10
Age at hire	<u> </u>		1984	10
Work history of individual				
before employment at your facility		<u> </u>	1984	_10
Sex	<u>X</u>	X	1984	10
Race	X	X	[984]	_10
Job titles	_X_	_X	1984	10
Start date for each job title	<u>X</u>	X	1984	10
End date for each job title	_X_	_X	1984	10
Work area industrial hygiene monitoring data		_χ	1984	10
Personal employee monitoring data			1984	30
Employee medical history			1984	30
Employee smoking history	<u>X</u>	_X	1984	30
Accident history	<u>X</u>	<u> </u>	1984	10
Retirement date	<u> </u>	<u> </u>	1984	10
Termination date	<u> </u>	<u> </u>	1984	10
Vital status of retirees	NA	NA	•	

9.02 CBI	in which you engage.	e instructions, complete			·
[_]	a.	b.	c.	d.	e.
	Activity	Process Category	Yearly Quantity (kg)	Total Workers	Total Worker-Hour
	Manufacture of the	Enclosed			
	listed substance	Controlled Release			
		0pen			
	On-site use as	Enclosed			
	reactant	Controlled Release			
		0pen			
	On-site use as	Enclosed			
	nonreactant	Controlled Release			
		0pen	-		
	On-site preparation	Enclosed	1.2	_8_	_80_
	of products	Controlled Release			
		0pen			

9.03 <u>CBI</u>	Provide a descriptive jencompasses workers who listed substance.	job title for each labor category at your facility that o may potentially come in contact with or be exposed to the
[_]		
	Labor Category	Descriptive Job Title
	A	CHURN ROOM OPERATOR
	В	TOWER OPERATOR
	С	HAZARDOUS WASTE HANDLER
	D	
	E	
	F	
	G	
	Н	
	I	
	J	

BEST COPY AVAILABLE

9.04	In accordance with the indicate associated work		provide	your	process	block	flow	diagram(s)	and
<u>CBI</u>									
[_]	Process type	POLYURET	HANE	501	WTION	I COP	TU	NC	



[] Mark (X) th	is box if you attach a continuation she	et.
Mark (X) thi	is box if you attach a continuation she	et.

9.05 CBI	Describe the various work area(s) shown in question 9.04 that encompass workers who may potentially come in contact with or be exposed to the listed substance. Add as additional areas not shown in the process block flow diagram in question 7.01 or 7.02. Photocopy this question and complete it separately for each process type.		
[_]	Process type	• •	
	Work Area ID	Description of Work Areas and Worker Activities	
	1	CHURN ROOM - COATING SOLUTION PREPARATION	
	2	TOWERS- FABRIC COATING	
	3	HAZARDOUS WASTE STORAGE - CLOSED CONTAINER	
	4	HANDUNZ	
	5		
	6		
	7		
	8		
	9		
	10		
		f you attach a continuation sheet	

Process type						
Work area	• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • •			· · · · · · · · · · · · · · · · · · ·
Labor Category	Number of Workers Exposed	Mode of Exposu (e.g., dir skin conta	ect	Physical State of Listed Substance ¹	Average Length of Exposure Per Day ²	Number of Days per Year Exposed
<u>A</u>	3	INHALATION,	KIN	OL	E	5
<u> </u>	4	INHALATION, S	KIN	DL	E	5
	1	INHALATION, 5		OL	A	5
						
					· · · · · · · · · · · · · · · · · · ·	
						
Use the foll	lowing codes	to designate the	e physi	cal state of	the listed su	bstance at
the point of	f exposure: condensible a					
tempei	cature and pro	essure)		Sludge or sl Aqueous liqu		
	incondensible cature and pro			Organic liqu Immiscible l		
includ	les fumes, va	pors, etc.)	In =	(specify pha	ses, e.g.,	
SO = Solid				90% water, 1	0% toluene)	
² Use the foll	lowing codes	to designate ave	erage le	ength of expo	sure per day:	
A = 15 minut B = Greater	es or less than 15 minut	tes but not			2 hours, but r	not
		ies, but not		exceeding 4 h	ours 4 hours, but r	
exceedin	than one hour		n - (reater than	4 nours, but i	101

9.07	Weighted Average (1	egory represented in question 9.06 (WA) exposure levels and the 15-min stion and complete it separately for	nute peak exposure levels.			
CBI						
[_]	Process type	•				
	Work area					
	Labor Category	8-hour TWA Exposure Level (mg/m³, other-specify)	15-Minute Peak Exposure Level (page mg/m³, other-specify)			
	A	< 0.005	<0.005			
		•				
•						

area.	stion and complete it separately fo	nute peak exposure levels. or each process type and work				
_						
Process type						
Work area	· · · · · · · · · · · · · · · · · · ·	2				
Labor Category	8-hour TWA Exposure Level (mg/m³, other-specify)	15-Minute Peak Exposure Level (page mg/m³, other-specify)				
<u> </u>	<0.005	<0.005				
	•					
	Work area Labor Category B	B < 0.005				

9.07 <u>CBI</u>	Weighted Average (egory represented in question 9.06 TWA) exposure levels and the 15-min stion and complete it separately for	nute peak exposure levels.
[_]	Process type	••	
	Work area	·····	3
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m ³ , other-specify)	15-Minute Peak Exposure Level (mps, mg/m³, other-specify)
		NA	O

9.08	If you monitor worke	er exposur	e to the li	sted substa	nce, compl	ete the fo	ollowing table.
CBI	NA						
[_]		Work	Testing Frequency	Number of Samples	Who	Analyzed In-House	Number of Years Records
	Sample/Test	Area ID		(per test)		(Y/N)	Maintained
	Personal breathing zone						
	General work area (air)					****	-
	Wipe samples						· ·
	Adhesive patches					17, 9 11, 17	
	Blood samples					******	
	Urine samples						
	Respiratory samples				,		
	Allergy tests						
	Other (specify)						
	Other (specify)						
	Other (specify)					-	
-							
	A = Plant industria B = Insurance carric C = OSHA consultant D = Other (specify)	l hygienis er		takes the	monitorin _i	g samples:	

[_]	Sample Type	VA] Sample Type NA Sampling and Analytical Methodology					
				N. W.				
9.10	If you conduct perso specify the followin					ubstance,		
CBI	NA.				Averaging			
[_]	Equipment Type ¹	Detection L	imit ²	Manufacturer	Time (hr)	Model Number		
		<u></u>						
			·					
								
			 -					
	¹ Use the following c		oto n	organal air manita	ring cauinmon			
	A = Passive dosimeters B = Detector tube C = Charcoal filtra D = Other (specify)	er		ersonar arr monito	ring equipmen	c types:		
	Use the following co	odes to design	ate a	mbient air monitor	ing equipment	types:		
	<pre>E = Stationary moni F = Stationary moni G = Stationary moni H = Mobile monitori I = Other (specify)</pre>	tors located w tors located a	ithin it plai speci:	facility nt boundary fy)		•		
	² Use the following co				ts:			
	A = ppm B = Fibers/cubic cer C = Micrograms/cubic							
	· · · · · · · · · · · · · · · · · · ·	``						

1	NA			Frequency	
	,	Test Description	(weekly,	monthly, yearly	, etc.
	t.				······································
	,		 		
				•	
		•			

Pescribe the engineering cor to the listed substance. Pr process type and work area.	ntrols that yo notocopy this	u use to reduce o question and comp	r eliminate wor lete it separat	cker exposi cely for ea
Process type				· · · · · · · · · · · · · · · · · · ·
Work area				
Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgrade
Ventilation:				
Local exhaust	<u> </u>	1984	N	NA
General dilution	Y	1984	N	NA
Other (specify)				
Vessel emission controls	Y	1984	N	NA
Mechanical loading or packaging equipment	N			
Other (specify)		,		

to the listed substance. P process type and work area.	ntrols that yo hotocopy this	u use to reduce o question and comp	r eliminate wor lete it separat	ker exposur ely for eac
Process type				
Work area			2	
Engineering Controls	Used (Y/N)	Year _Installed	Upgraded (Y/N)	Year Upgraded
Ventilation:				
Local exhaust	<u> </u>	1984	N	NA
General dilution	<u> </u>	1984	N	NA
Other (specify)				•
Vessel emission controls	N			
Mechanical loading or packaging equipment	<u> </u>	1984	\sim	NA
Other (specify)		,		
•				

12 Describe the engineering conto the listed substance. Process type and work area. I	ntrols that you hotocopy this o	u use to reduce o question and comp	r eliminate won lete it separan	rker exposure tely for eacl
_] Process type	•			
Work area			3	
Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded
Ventilation:	. •			
Local exhaust	<u>N</u>		***************************************	
General dilution	<u> </u>	1984	NA	
Other (specify)				
Vessel emission controls	NA			TO SERVICE PART AND ENGINEER
Mechanical loading or packaging equipment		· ·		
Other (specify)				
	-	-		***************************************

Process	type	NA			
	ea				
		Process Modifica	tion	Reduction Exposure P	
				-	
-					
ŕ					

	Describe the perso	IVE AND SAFETY EQUIPMENT nal protective and safety equ	nipment that your workers wear or use			
	in each work area in order to reduce or eliminate their exposure to the listed substance. Photocopy this question and complete it separately for each process type and work area.					
<u>CBI</u>						
[_]	Process type	• • •				
	Work area	• • • • • • • • • • • • • • • • • • • •				
			Wear or			
		Equipment Types	Use (Y/N)			
		Respirators	<u> </u>			
		Safety goggles/glasses	<u> </u>			
		Face shields	N			
		Coveralls	N			
		Bib aprons	N			
		Chemical-resistant gloves	<u> </u>			
		Other (specify)	·			

9.14 <u>CBI</u>	in each work area in	order to reduce or eliminat	ipment that your workers wear or u te their exposure to the listed e it separately for each process	
[_]	Process type	•		
	Work area	• • • • • • • • • • • • • • • • • • • •	2	
		Equipment Types Respirators Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify)	Wear or Use (Y/N) Y N N N Y	

	D TERSONAL TROTECT	IVE AND SAFETY EQUIPMENT		
9.14 <u>CBI</u>	in each work area	nal protective and safety equi in order to reduce or eliminat opy this question and complete	te their exposure to the li	sted
[_]	Process type			
			_	
		Equipment Types Respirators Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify)	Wear or Use (Y/N) N Y N N Y N Y Y	

	process respira tested,	ers use respirators when work type, the work areas where tors used, the average usage, and the type and frequency oe it separately for each proc	he respirat whether or f the fit t	ors are us not the i	sed, the type sespirators w	of ere fit
<u>CBI</u>						
[_]	Process	type				
	Work Area	Respirator Type	Average Usage	Fit Tested (Y/N)	Type of Fit Test ²	Frequency of Fit Tests (per year)
		HALF MASK, NEG. PRESSURE	E	<u> </u>	QL QT	2
		HALFHASK, NEG PRESSURE	E	<u>Y</u>	QL, QT	
			· · · · · · · · · · · · · · · · · · ·			
		ce a year ner (specify) <u>REQUIRED Wh</u>				
	QL = Qi	e following codes to designato Dalitative Dantitative	e the type	of fit tes	t:	
	QL = Qi	Jalitative	e the type	of fit tes	t:	
	QL = Qi	Jalitative	e the type		t:	
	QL = Qi	Jalitative	e the type			
	QL = Qi	Jalitative	e the type			
	QL = Qi	ualitative uantitative	e the type			

PART	E WORK PRACTICES						
9.19 CBI []	Describe all of the work practices and administrative controls used to reduce or eliminate worker exposure to the listed substance (e.g., restrict entrance only to authorized workers, mark areas with warning signs, insure worker detection and monitoring practices, provide worker training programs, etc.). Photocopy this question and complete it separately for each process type and work area.						
	Process type			1 0	2		
	work area	• • • • • • • • • • • • • • • •	• • • • • • • • • • • • •		·1-3		
	MANDATORY USE	OF PERSO	NAL PROT	ECTIVE E	QUIPMENT		
	WHEN SUBSTANC	E 15 IN L	OSE.				
			***************************************	<u> </u>			
	Process type		····· <u> </u> ,	2,3			
	Housekeeping Tasks	Less Than Once Per Day	1-2 Times Per Day	3-4 Times Per Day	More Than 4 Times Per Day		
	Sweeping		X				
	Vacuuming	-					
	Water flushing of floors		·····	***************************************			
	Other (specify)						
				•			
[-]	Mark (X) this box if you a	ttach a continua	tion sheet.				

9.21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?
	Routine exposure
	Yes 1
	No
	Emergency exposure
	Yes
	No 2
	If yes, where are copies of the plan maintained?
	Routine exposure: <u>VA</u>
	Emergency exposure: ALL SUPERVISORS
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.
	Yes
	No 2
	If yes, where are copies of the plan maintained? ALL SUPERVISORS
	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.
	Yes
	No 2
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.
	Plant safety specialist
	Insurance carrier 2
	OSHA consultant 3
	Other (specify) 4
[_]	Mark (X) this box if you attach a continuation sheet.

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RO.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

PART A	A GENERAL INFORMATION
10.01	Where is your facility located? Circle all appropriate responses.
<u>CBI</u>	
[_]	Industrial area 1
	Urban area
	Residential area 3
	Agricultural area 4
	Rural area 5
	Adjacent to a park or a recreational area 6
	Within 1 mile of a navigable waterway
	Within 1 mile of a school, university, hospital, or nursing home facility 8
	Within 1 mile of a non-navigable waterway
	Other (specify)10

10.02	2 Specify the exact location of your facility (from central point where pris located) in terms of latitude and longitude or Universal Transverse (UTM) coordinates.							
	Latitude		4(· 08	, 30			
	Longitude	•••••	73	<u>° 15</u>	<u>' 53</u> '			
	UTM coordinates Zone	e, North	ing	, East	ing			
10.03		nditions in the vicin	ity of yo	ur facili	ty, provide			
	Average annual precipitation	••••			_ inches/year			
	Predominant wind direction							
10.04	Indicate the depth to groundwater Depth to groundwater				_ meters			
10.05 <u>CBI</u>	For each on-site activity listed, listed substance to the environme Y, N, and NA.)	, indicate (Y/N/NA) a ent. (Refer to the in	ll routine	releases	s of the definition of			
[_]	On-Site Activity	Env: Air	ironmental Wate		Land			
	Manufacturing		wate		Land			
	Importing			_				
	Processing	Y	NA	-	NA			
	Otherwise used			<u> </u>				
	Product or residual storage		***************************************	_				
	Disposal		***************************************	-				
	Transport							
[_] 1	Mark (X) this box if you attach a	continuation sheet.						

10.08 CBI	Describe the control technologies used to minimize release of the listed substance for each process stream containing the listed substance as identified in your process block or residual treatment block flow diagram(s). Photocopy this question and complete it separately for each process type.					
[_]	Process type					
	Stream ID Code	Control Technology FUME INCLUERATOR	Percent Efficiency			
[_]	Mark (X) this box if yo	u attach a continuation sheet.				

substance in terms of residual treatment source. Do not included sources (e.g., equiple for each process type)	
Process type Point Source	
ID Code	Description of Emission Point Source
7. I	SOLVENT AND ANY RESIDUAL TOI
	ESCAPING INCINERATION
	
	

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this

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 \vdash

⁴Average Emission Factor — Provide estimated (± 25 percent) emission factor (kg of emission per kg of production of listed substance)

.11 <u>I</u>	identifie	rameters ed in quest	ion 10.09 by	e stack para completing	the follow	ing table.	Source ID C	oae
_]	Point Source ID Code	Stack Height(m)	Stack Inner Diameter (at outlet) (m)	Exhaust Temperature (°C)	Emission Exit Velocity (m/sec)	Building <u>Height(m)</u> 1	Building Width(m) ²	Ve Ty
	7.I	16	0.7	<200	13	NA	_NA_	
	<u></u>							
								
		•	or adjacent					
	² Width of	attached	or adjacent	building				
	³ Use the	following o	codes to des	ignate vent	type:			
	H = Hori V = Vert							

10.12 <u>CBI</u>	If the listed substance is emitted in particulate form, indicate the particle size distribution for each Point Source ID Code identified in question 10.09. Photocopy this question and complete it separately for each emission point source.					
<u></u>	NA					
,	Point source ID code					
	Size Range (microns)	Mass Fraction (% \pm % precision)				
	< 1					
	≥ 1 to < 10					
	≥ 10 to < 30					
	≥ 30 to < 50					
	≥ 50 to < 100					
	≥ 100 to < 500					
	≥ 500					
		Total = 100%				

	FUGITIVE EMISSIONS						
10.13 CBI	Equipment Leaks Complete types listed which are expactording to the specified the component. Do this for residual treatment block for exposed to the listed process, give an overall presposed to the listed subsfor each process type.	osed to the l weight perce r each proces low diagram(s substance. I ercentage of	isted sont of the stype of this time per	ubstance and listed in the listed in the listed include in the listed is a batch or year tha	nd which substance in your e equipme or inter t the pro	are in se passing process b nt types mittently cess type	rvice through lock or that are operated is
<u></u> 1	Process type	NA					
·	Percentage of time per year		sted sul	stance is	exposed	to this n	rocess
	type	• • • • • • • • • • • • • • • • • • • •		••••••	•••••••	–	%
				onents in S ed Substan			
	Fautament Ware	Less					Greater
	Equipment Type Pump seals ¹	than 5%	5-10%	11-25%	26-75%	76-99%	than 99%
	Packed				-		
	Mechanical	<u></u>					
	Double mechanical ²		*****				
	Compressor seals ¹					-	
	Flanges						
	Valves						**************************************
	Gas ³						
	Liquid						***************************************
	Pressure relief devices ⁴ (Gas or vapor only)						
	Sample connections						
	Gas						
	Liquid						
	Open-ended lines ⁵ (e.g., purge, vent)						
	Gas						
	Liquid						
	¹ List the number of pump an compressors	d compressor	seals,	rather tha	n the num	ber of pu	imps or
10.13	continued on next page						

2 If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) that will detect failure of the seal system, the barrier fluid system, or both, indicate with a "B" and/or an "S", respectively 3 Conditions existing in the valve during normal operation 4 Report all pressure relief devices in service, including those equipped with control devices 5 Lines closed during normal operation that would be used during maintenance operations 10.14 Pressure Relief Devices with Controls — Complete the following table for those pressure relief devices identified in 10.13 to indicate which pressure relief devices in service are controlled. If a pressure relief device is not controlled, enter "None" under column c. 1	10.13	(continued)			
*Report all pressure relief devices in service, including those equipped vith control devices *Lines closed during normal operation that would be used during maintenance operations 10.14 Pressure Relief Devices with Controls Complete the following table for those pressure relief devices identified in 10.13 to indicate which pressure relief devices in service are controlled. If a pressure relief device is not controlled, enter "None" under column c. **NA** D.		greater than the pump stu will detect failure of th	ffing box pressure e seal system, the	and/or equipped wi	th a sensor (S) that
in Vessel Control Device Substance" (e.g., (5%, 5-10%, 11-25%, etc.) Lines closed during normal operation that would be used during maintenance operations 10.14 Pressure Relief Devices with Controls Complete the following table for those pressure relief devices is nervice are controlled. If a pressure relief device is not controlled, enter "None" under column c. A.		³ Conditions existing in th	e valve during nor	mal operation	
operations 10.14 Pressure Relief Devices with Controls Complete the following table for those pressure relief devices identified in 10.13 to indicate which pressure relief devices in service are controlled. If a pressure relief device is not controlled, enter "None" under column c. a.		⁴ Report all pressure relie control devices	f devices in servi	ce, including those	equipped with
pressure relief devices identified in 10.13 to indicate which pressure relief devices in service are controlled. If a pressure relief device is not controlled, enter "None" under column c. A. B. C. d.			l operation that we	ould be used during	maintenance
Pressure Relief Devices in Vessel¹ Control Device Control Efficiency 1 Refer to the table in question 10.13 and record the percent range given under the heading entitled "Number of Components in Service by Weight Percent of Listed Substance" (e.g., <5%, 5-10%, 11-25%, etc.) 2 The EPA assigns a control efficiency of 100 percent for equipment leaks controlled with rupture discs under normal operating conditions. The EPA assigns a control efficiency of 98 percent for emissions routed to a flare under normal operating conditions	CBI	pressure relief devices id devices in service are con enter "None" under column a.	entified in 10.13 trolled. If a presc.	to indicate which pressure relief device	ressure relief is not controlled,
heading entitled "Number of Components in Service by Weight Percent of Listed Substance" (e.g., <5%, 5-10%, 11-25%, etc.) The EPA assigns a control efficiency of 100 percent for equipment leaks controlled with rupture discs under normal operating conditions. The EPA assigns a control efficiency of 98 percent for emissions routed to a flare under normal operating conditions			in Vessel	Control Device	Control Efficiency
heading entitled "Number of Components in Service by Weight Percent of Listed Substance" (e.g., <5%, 5-10%, 11-25%, etc.) The EPA assigns a control efficiency of 100 percent for equipment leaks controlled with rupture discs under normal operating conditions. The EPA assigns a control efficiency of 98 percent for emissions routed to a flare under normal operating conditions					
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heading entitled "Number of Components in Service by Weight Percent of Listed Substance" (e.g., <5%, 5-10%, 11-25%, etc.) The EPA assigns a control efficiency of 100 percent for equipment leaks controlled with rupture discs under normal operating conditions. The EPA assigns a control efficiency of 98 percent for emissions routed to a flare under normal operating conditions					
heading entitled "Number of Components in Service by Weight Percent of Listed Substance" (e.g., <5%, 5-10%, 11-25%, etc.) The EPA assigns a control efficiency of 100 percent for equipment leaks controlled with rupture discs under normal operating conditions. The EPA assigns a control efficiency of 98 percent for emissions routed to a flare under normal operating conditions					
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with rupture discs under normal operating conditions. The EPA assigns a control efficiency of 98 percent for emissions routed to a flare under normal operating conditions		heading entitled "Number o	f Components in Ser	ord the percent rang rvice by Weight Perc	ge given under the cent of Listed
[_] Mark (X) this box if you attach a continuation sheet.		with rupture discs under neefficiency of 98 percent f	ormal operating cor	nditions. The EPA a	ssigns a control
	[_]	Mark (X) this box if you at	tach a continuation	ı sheet.	

an T	procedures. Photocoptype.	py this question a	nd complete	it separat	ely for each	process
CBI	N	1A				
[_]	Process type		• • • • • • • • • • • • •			
	Equipment Type	Leak Detection Concentration (ppm or mg/m³) Measured at Inches from Source	Detection	of Leak Detection	Repairs Initiated (days after detection)	Repairs Completed (days afte initiated)
	Equipment Type	Trom Source	Device	(per year)	detection)	Initiated)
	Pump seals Packed Mechanical Double mechanical					
	Compressor seals					
	Flanges					
	Valves					
	Gas					
	Liquid Pressure relief devices (gas or vapor only)					
	Sample connections					
	Gas					
	Liquid					
	Open-ended lines					
	Gas					
	Liquid _					
	¹ Use the following co POVA = Portable orga FPM = Fixed point mo O = Other (specify)	anic vapor analyze	r			

PART	E	NON-ROUTINE	RELEASES
------	---	-------------	----------

	list all	releases. NA			attach a continu	ation sheet and
	Release		ate arted	Time (am/pm)	Date Stopped	Time _(am/pm)
	1		·			
	2					
	3	-				
	4		·			
	5					
	6	-				
10.24	Specify t	he weather con Wind Speed	ditions at the Wind	time of each n	·	Dungdudunkton
	Release	(km/hr)	Wind Direction	Humidity (%)	Temperature (°C)	Precipitation (Y/N)
	1					
	2					
	3					
	3 4					
	3 4 5					
	3 4					
	3 4 5					
	3 4 5					
	3 4 5					
	3 4 5					